#### State of California AIR RESOURCES BOARD

#### EXECUTIVE ORDER A-10-624-B Relating to Certification of New Motor Vehicles

#### FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Orders G-45-3 and G-45-4;

IT IS ORDERED AND RESOLVED: That Ford Motor Company 1995 model-year exhaust emission control systems are certified as described below for light-duty trucks:

Fuel Type: Gasoline

Engine Family: SFM4.028G1EK <u>Displacement</u>: 4.0 Liters (244 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converters (two)
Dual Heated Oxygen Sensors
Exhaust Gas Recirculation
Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are:

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>
3751-5750	50,000	0.32	4.4	0.7
	100,000	0.40	5.5	n/a

The certification exhaust emission values for this engine family in grams per mile are:

Loaded Vehicle Weight(lbs.)	Miles	Non-Methane <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>
3751-5750	50,000	0.11	1.6	0.2
	100,000	0.12	1.9	n/a

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average non-methane organic gas (NMOG) exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the listed vehicle models are certified to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles at the request of the manufacturer based on the assumption that those standards and test procedures in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles" will be amended with the result that the data submitted by the manufacturer for the listed vehicle models would be sufficient to satisfy the requirements applicable to 1995 and subsequent model-year vehicles. The Air Resources Board approved such amendments at a hearing conducted on February 10, 1994. The certification of the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles is CONDITIONAL on such amendments becoming effective by January 31, 1995. If such amendments do not become effective by January 31, 1995, the listed vehicle models shall be deemed certified to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles" unless the manufacturer demonstrates, to the Executive Officer's satisfaction, that the listed vehicle models comply with the requirements for running loss and useful life standards and test procedures in effect on the date of this certification order.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles".

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System for 1988 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.

BE IT FURTHER RESOLVED: That the listed vehicle models have been exempted from compliance with the "Malfunction and Diagnostic System Requirements-1994 and Subsequent Model-Year Passenger Cars, Light-duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this

 $\gamma / \gamma$ 

day of December, 1994.

R. B Summerfield
Assistant Division Chief
Mobile Source Division

Manufacturer:	Ford Motor Co	mpany	Exh	aust E	ngine Family	: SFM4.028G	31EK
Evap Standard:	50K	Jseful Life wit	th R/L_	<u>x</u>	Evap Fami	ly: SFM1240	AYM1B
Exhaust Std: T	ier 0 <u> </u>	<u>X</u> TLEV _ L	EV_	ULEV .	_ ZEV ;	EPA Tier 0	Tier 1
Vehicle Class(e	s): PC LD	T1 _ LDT2	<u>X</u> MD	)V1 _	MDV2 MD	V3 _ MDV4	_ MDV5 _
Single Cert Std	for Multi-Class	Eng Fam: _	<u>N/A</u> (s <sub>l</sub>	pecify I	N/A, LDT1, M	IDV1, MDV2,	MDV3, MDV4)
Exh Cert Fuel(s	): Indo Phi M85 CNO	2 <u>X</u> Diese 3 _ LPG _ (	i: 13 C Other (:	CR 22 specify	82 <u> </u>	OFR 86.113-9	0 or -94
Fuel Type(s): C	Dedicated   NG LNG						
Hybrid: Type A	вс	, APU Cy	cle (e.g	j., Otto	, Diesel, Turt	oine)	<del></del>
Engine Config:	<u>V6</u>	Liter (CID)	: <u>4.0 (</u>	<u>244)                                   </u>			
Engine: Front_>	C Mid Rea	ar Driv	e: FW	D F	RWD <u>X</u> 4W	D-FT _ 4WI	D-PT
Exhaust ECS & (Use abbreviat				TWC(	4)		
Engine Code V		A-Automatic		DPA	(PCM)	System	Catalyst
(California)		M-Manuai			Part No.	Part No.	Part No.
558P R00A/N E	•	A4			F5TF-ASA	F3DE-AA	F57A-HC/ F57A-HD
	2 Door SWB		4250 4250*	10.9 12.0			
	4 Door LWB		4500 ° 4500*	11.1 12.2		•	

<sup>\*</sup> with air conditioning

Manufacturer: Ford Motor Company	Exhaust	Engine Family	: SFM4.028G	i1EK
Evap Standard: 50K Useful Li	ie with R/L X	_ Evap Fam	ily: SFM1240.	AYM1B
Exhaust Std: Tier 0 Tier 1 X TLEV	LEV ULEV	ZEV ;	EPA Tier 0 _	Tier 1
Vehicle Class(es): PC LDT1 L	DT2 X MDV1_	_ MDV2 MC	DV3 MDV4	MDV5
Single Cert Std for Multi-Class Eng Fa	m: <u>N/A</u> (specify	/ N/A, LDT1, N	IDV1, MDV2,	MDV3, MDV4)
Exh Cert Fuel(s): Indo Ph2 X [ M85 CNG LPC	Diesel: 13 CCR 2 3 Other (speci	282 _ or 40 ( fy)	CFR 86.113-9	0 _ or -94 _
Fuel Type(s): Dedicated Flex-Fuel CNG LNG LPG	l Dual-Fuel_ G Other (sp	Gasoline X	Diesel M	485 <u> </u>
Hybrid: Type A B C, AP	'U Cycle (e.g., Ot	to, Diesel, Tur	bine)	
Engine Config: <u>V6</u> Liter	(CID): 4.0 (244)	-		
Engine: Front_X_MidRear	Drive: FWD	RWD X 4V	VD-FT 4WI	D-PT <u>X</u>
Exhaust ECS & Special Features: <u>SFI</u> (Use abbreviations per SAE J1930, S	/HO,S/EGR/TWC	<b>(1)</b>		
Engine Code Vehicle Models Trans.	Type ETW DPA	Ignition	EGR	Catalyst
	matic ual	(PCM) Part No.	Part No.	Part No.
558R ROOA/N Explorer 4x4 A4		F5TF-ATA	F3DE-AA/ F37E-CA	
2 Door SWB	4500 12.0 4500* 13.2		· · · · · · ·	
4 Door LWB	4750 11.1- 4750* 12.2-			

<sup>\*</sup> with air conditioning # 12.0 with P225/70R15 tire ## 13.2 with P225/70R15 tire

Manufacturer:	Ford Motor Cor	mpany	Exh	aust E	ngine Family	: SFM4.0280	i1EK
Evap Standar	d: 50K l	Jseful Life wit	th R/L_	<u>x</u>	Evap Fami	ily: SFM1240	AYM1B
Exhaust Std:	Tier 0 _ Tier 1	X TLEV _ L	.EV	ULEV .	_ ZEV _ ;	EPA Tier 0 _	Tier 1
Vehicle Class	(es): PC LD	T1 LDT2	<u>x</u> MC	)V1	MDV2 MC	V3 MDV4	MDV5
Single Cert St	d for Multi-Class	Eng Fam: _I	<u>N/A</u> (s	pecify	N/A, LDT1, M	IDV1, MDV2,	MDV3, MDV4)
Exh Cert Fuel	(s): Indo Phi M85 CNO	2 <u>X</u> Diese 3 _ LPG _ (	l: 13 C Other (	CR 22 specify	82 or 40 ( /)	OFR 86.113-9	0 or -94
Fuel Type(s):	Dedicated (	Flex-Fuel LPG	Dual-Fi Othe	uel er (spe	Gasoline X	Diesel N	185 <u> </u>
Hybrid: Type	A B C	, APU Cy	cle (e.ç	g., Otto	o, Diesel, Turi	bine)	
Engine Config	g: <u>V6</u>	Liter (CID)	: 4.0 (	244)			
Engine: Front	X Mid Rea	ar Driv	/e: FW	/D	RWD <u>X</u> 4W	D-FT 4W	D-PT <u>X</u>
	& Special Featur iations per SAE			/TWC (	(2)		
(Use abbrev		J1930, Sep 9 Trans. Type	1) . ETW		Ignition	EGR	Catalyst
(Use abbrev	iations per SAE	J1930, Sep 9	1) . ETW		Ignition (PCM)	EGR System Part No.	•
(Use abbrev Engine Code (California)	iations per SAE	J1930, Sep 9 Trans. Type A-Automatic	1) . ETW		Ignition (PCM) Part No.	System	Part No. F57A-HC/
(Use abbrev Engine Code (California)	iations per SAE v	J1930, Sep 9 Trans. Type A-Automatic M-Manual M5	1) . ETW		Ignition (PCM) Part No.	System Part No.  F3DE-AA/	Part No. F57A-HC/
(Use abbrev Engine Code (California)	Vehicle Models  Explorer 4x2	J1930, Sep 9 Trans. Type A-Automatic M-Manual M5	1) . ETW	DPA 10.9	Ignition (PCM) Part No.	System Part No.  F3DE-AA/	Part No. F57A-HC/
(Use abbrev Engine Code (California)	Vehicle Models  Explorer 4x2 2 Door SWB	J1930, Sep 9 Trans. Type A-Automatic M-Manual M5	4000 4000* 4500	10.9 12.0	Ignition (PCM) Part No.	System Part No.  F3DE-AA/	Part No. F57A-HC/
(Use abbrev Engine Code (California)	Explorer 4x2 2 Door SWB 4 Door LWB	J1930, Sep 9 Trans. Type A-Automatic M-Manual M5	4000 4000* 4500	10.9 12.0 11.1 12.2	Ignition (PCM) Part No.	System Part No.  F3DE-AA/	Part No. F57A-HC/

ENGINE FAMILY: SFM4.028G1EK ISSUED: NOV 2 2 1094

<sup>\*</sup> with air conditioning

Manufacturer	Ford Motor Co	трапу ,	Exh	aust E	ngine Family	: SFM4.0280	31EK
Evap Standar	d: 50K	Useful Life wi	ith R/L	X	Evap Fam	ily: SFM1240	AYM1B
Exhaust Std:	Tier 0 Tier 1	<u>X</u> TLEV _	LEV_	ULEV _	_ ZEV ;	EPA Tier 0 _	Tier 1
Vehicle Class	(es): PC LD	T1 _ LDT2	<u>X</u> MC	)V1 _ i	MDV2 MC	0V3 _ MDV4	MDV5
Single Cert Si	td for Multi-Class	Eng Fam: _	<u>N/A</u> (s	pecify t	N/A, LDT1, M	IDV1, MDV2,	MDV3, MDV4)
Exh Cert Fuel	(s): Indo Ph M85 CNo	2 X Diese 3 _ LPG _	ol: 13 C Other (	CR 220 specify	82 or 40 ( )	CFR 86.113-9	0 or -94
Fuel Type(s):	Dedicated CNG LNG	Flex-Fuel _ LPG	Dual-Fi _ Othe	uel r (spec	Gasoline <u>X</u> ify)	Diesel N	185
Hybrid: Type	A B C	, APU C <sub>3</sub>	ycle (e.ç	g., Otto	, Diesel, Tur	bine)	<del></del>
Engine Config	g: <u>V6</u>	Liter (CID	): <u>4.0 (</u>	244)			
Engine: Front	<u>X</u> Mid Re	ar Dri	ve: FW	′D F	RWD <u>X</u> 4W	/D-FT 4W	D-PT <u>X</u>
Exhaust ECS (Use abbrev	& Special Featuriations per SAE	res: <u>SFI/HO</u> J1930, Sep 9	<u>S/EGR/</u> 11)	<u>/TWC(</u> z	)		
Engine Code	Vehicle Models	Trans. Type	ETW	DPA	Ignition	EGR	Catalyst
(California)		A-Automatic M-Manual	•		(PCM) Part No.	System Part No.	Part No.
558R R05A/N	Explorer 4x4	A4			F5TF-ATB		
	2 Door SWB		4500	12.0		F37E-CA	F57A-HD
			4500*	13.2			
	4 Door LWB		4750	11.1#			
			4750*	12.2##	<b>#</b>		
	Explorer 4x2		4250	10.9			
	2 Door CWD		4250*	10.0			
	2 Door SWB		4230"	12.0			

<sup>\*</sup> with air conditioning # 12.0 with P225/70R15 tire ## 13.2 with P225/70R15 tire

Maria de la Ci	: Fora Motor Co	mpany	Ex	naust (	Engine Family	y: SFM4.028	G1EK
Evap Standa	rd: 50K	Useful Life wi	th R/L	Х	Evap Fam	nily: SFM124	0AYM1B
Exhaust Std:	Tier 0 Tier 1	X TLEV _ I	LEV_	ULEV	ZEV ;	EPA Tier 0 _	Tier 1
Vehicle Class	e(es): PC LD	DT1 LDT2	<u>X</u> MI	DV1 _	MDV2 MI	DV3 MDV4	MDV5
Single Cert S	td for Multi-Class	Eng Fam: _	<u>N/A</u> (s	pecify	N/A, LDT1, N	IDV1, MDV2,	MDV3, MDV4)
Exh Cert Fue	l(s): Indo Ph M85 CN	2 <u>X</u> Diese G _ LPG _	l: 13 ( Other (	CR 22 specif	282 _ or 40 ( y)	CFR 86.113-9	90 _ or -94 _
Fuel Type(s):	Dedicated CNG LNG	Flex-Fuel LPG	Dual-F Othe	uel er (spe	Gasoline X	Diesel _ I	M85
Hybrid: Type	A B C	, APU Cy	cle (e.	g., Otto	o, Diesel, Turi	bine)	<del></del>
Engine Config	g: <u>V6</u>	Liter (CID)	: <u>4.0 (</u>	244)			
Engine: Front	<u>X</u> Mid Rea	ar Driv	/e: FW	'D _	RWD <u>X</u> 4W	/D-FT 4W	D-PT <u>X</u>
Exhaust ECS	& Special Featur	res: SEIÆO.:	S/EGD	muc (	- 3		
(Use abbrev	iations per SAE	J1930, Sep 9	1)	TVVC	.2)		
Engine Code	iations per SAE	J1930, Sep 9 Trans. Type A-Automatic	1) ETW		Ignition (PCM)		Catalyst
	iations per SAE	J1930, Sep 9 Trans. Type	1) ETW		Ignition	System	•
Engine Code	Vehicle Models	J1930, Sep 9 Trans. Type A-Automatic	1) ETW		Ignition (PCM)	System Part No.	Part No.
Engine Code (California)	Vehicle Models	J1930, Sep 9 Trans. Type A-Automatic M-Manual M5	1) ETW		Ignition (PCM) Part No.	System Part No. F3DE-AA/	Part No. F57A-HC/
Engine Code (California)	Vehicle Models  Explorer 4x2	J1930, Sep 9 Trans. Type A-Automatic M-Manual M5	1) ETW 4000	DPA 10.9 12.0 11.1	Ignition (PCM) Part No.	System Part No. F3DE-AA/	Part No. F57A-HC/
Engine Code (California)	iations per SAE  Vehicle Models  Explorer 4x2  2 Door SWB	J1930, Sep 9 Trans. Type A-Automatic M-Manual M5	4000 4000* 4500	DPA 10.9 12.0 11.1	Ignition (PCM) Part No.	System Part No. F3DE-AA/	Part No. F57A-HC/
Engine Code (California)	iations per SAE  Vehicle Models  Explorer 4x2  2 Door SWB  4 Door LWB	J1930, Sep 9 Trans. Type A-Automatic M-Manual M5	4000 4000* 4500	DPA 10.9 12.0 11.1	Ignition (PCM) Part No.	System Part No. F3DE-AA/	Part No. F57A-HC/

<sup>\*</sup> with air conditioning

Manufacture	r: Ford Motor Co	ompany	Ex	haust l	Engine Famil	y: SFM4.028	G1EK
Evap Standa	rd: 50K	Useful Life w	ith R/L	X	Evap Fan	nily: SFM124	0AYM1B
Exhaust Std:	Tier 0 Tier 1	X TLEV _	LEV _	ULEV	ZEV ;	EPA Tier 0 _	Tier 1
	s(es): PC LE						
	td for Multi-Class						
	l(s): Indo Ph	2 X Diese	el: 13 (	OCR 22	282 or 40		)0 or -94
Fuel Type(s):	Dedicated CNG LNG	Flex-Fuel LPG	Dual-F _ Othe	uel er (spe	Gasoline X	_ Diesel N	M85
Hybrid: Type	A B C	, APU C	ycle (e.	g., Otto	o, Diesel, Tur	bine)	
Engine Config	g: <u>V6</u>	Liter (CID	): <u>4.0 (</u>	(244)			
Engine: Front	X Mid. Re	ar Dri	ve: FW	/D	RWD <u>X</u> 4W	/D-FT 4W	D-PT <u>X</u>
Exhaust ECS (Use abbrev	& Special Featuriations per SAE	res: <u>SFI/HO</u> J1930, Sep 9	<u>S/EGR</u> 11)	/TWC (	(2)		
Engine Code	Vehicle Models	Trans. Type	ETW	DPA		EGR	Catalyst
(California)		A-Automatic M-Manual	•		(PCM) Part No.	System Part No.	Part No.
558R R10A/N	Explorer 4x4	A4	•		F5TF-ATC	F3DE-AA/ F37E-CA	F57A-HC/ F57A-HD
	2 Door SWB		4500 4500*	12.0 13.2			, 5,,,,,,
	4 Door LWB		4750 4750*	11.1# 12.2#			
	Explorer 4x2						
	2 Door SWB		4250 4250*	10. <del>9</del> 12.0			
	4 Door LWB		4500 4500*	11.1 12.2			

<sup>\*</sup> with air conditioning # 12.0 with P225/70R15 tire ## 13.2 with P225/70R15 tire